

**Acronyms and Abbreviations**

A	adenine	ISO	International Organization for Standardization
AA	aristolochic acid	JM	Johns Manville
AAN	aristolochic acid nephropathy	$K_{dis}$	dissolution rate
ACGIH	American Conference of Governmental Industrial Hygienists	$K_{ow}$	octanol-water partition coefficient
ADH	alcohol dehydrogenase	LET	linear energy transfer
ATSDR	Agency for Toxic Substances and Disease Registry	MCA 38	murine colon adenocarcinoma cell line
BEN	Balkan endemic nephropathy	MCL	maximum contaminant level
BRCA	breast cancer susceptibility proteins	min	minute(s)
C	cytosine	MMVF	man-made (or machine-made) vitreous fibers
CAS	Chemical Abstracts Service	mol wt	molecular weight
CAS No.	Chemical Abstracts Service Registry number	N/A	not applicable
CDC	Centers for Disease Control and Prevention	NADPH	nicotinamide adenine dinucleotide phosphate, reduced form
CFR	Code of Federal Regulations	NAICS	North American Industrial Classification System
CHO	Chinese hamster ovary	NCI	National Cancer Institute
CI	confidence interval	NHANES	National Health and Nutrition Examination Survey
C.I.	Colour Index	NHL	non-Hodgkin lymphoma
COX	cyclooxygenase	NIEHS	National Institute of Environmental Health Sciences
CPSC	Consumer Product Safety Commission	NIH	National Institutes of Health
CYP	cytochrome P450	NIOSH	National Institute for Occupational Safety and Health
2,4-D	2,4-dichlorophenoxyacetic acid	NNK	4-( <i>N</i> -nitrosomethylamino)-1-(3-pyridyl)-1-butanone
dA-AAI	7-(deoxyadenosin- <i>N</i> 6-yl)-aristolactam I	NNN	<i>N</i> -nitrosomethylnicotine
dA-AAII	7-(deoxyadenosin- <i>N</i> 6-yl)-aristolactam II	No.	number
DDD	1,1-dichloro-2,2-bis( <i>p</i> -chlorophenyl)ethane	NOHS	National Occupational Hazard Survey
DDE	1,1-dichloro-2,2-bis( <i>p</i> -chlorophenyl)ethylene	NR	not reported
DDT	dichlorodiphenyltrichloroethane	NRC	Nuclear Regulatory Commission
dec	decomposes (used to indicate when a substance decomposes at its boiling point or melting point)	NTP	National Toxicology Program
dG	deoxyguanosine	OCDD	octachlorodibenzo- <i>p</i> -dioxin
dG-AAI	7-(deoxyguanosin- <i>N</i> 2-yl)-aristolactam I	OR	odds ratio
dG-AAII	7-(deoxyguanosin- <i>N</i> 2-yl)-aristolactam II	OSHA	Occupational Safety and Health Administration
DHHS	Department of Health and Human Services	PAH	polycyclic aromatic hydrocarbon
DHP	dihydropyrrolizine	PCDD	polychlorinated dibenzodioxin
DMDTC	dimethyldithiocarbamate	PCDF	polychlorinated dibenzofuran
DNA	deoxyribonucleic acid	PCP	pentachlorophenol
DNT	dinitrotoluene	PEL	permissible exposure limit
DOE	Department of Energy, United States	PHS	Public Health Service
DOT	Department of Transportation, United States	$pK_b$	dissociation constant
ed.	edition, editor(s)	PVC	polyvinyl chloride
EPA	Environmental Protection Agency, United States	$r$	correlation coefficient
F344	Fischer 344 (rats)	$r^2$	coefficient of determination, a statistical measure of goodness of fit of a model
FANC	Fanconi anemia complementation group proteins	<i>R</i> -DHP	<i>R</i> -dihydropyrrolizine, also called dehydroretronecine
FDA	Food and Drug Administration, United States	REL	recommended exposure limit
G	guanine	RNA	ribonucleic acid
GST	glutathione S-transferase	RoC	Report on Carcinogens
GST-P+	glutathione S-transferase placental form positive	ROS	reactive oxygen species
h	hour(s)	RQ	reportable quantity
HBeAg	hepatitis B e antigen	RR	relative risk (risk ratio or rate ratio)
HBsAg	hepatitis B surface antigen	s	second
HCA	heterocyclic amine	S&S	Schleicher & Schuell
HHE	Health Hazard Evaluation	<i>S</i> -DHP	<i>S</i> -dihydropyrrolizine, also called dehydroheliotridine
HIV	human immunodeficiency virus	SIR	standardized incidence ratio
HpCDD:	heptachlorodibenzo- <i>p</i> -dioxin	SMR	standardized mortality ratio
HPLC	high performance liquid chromatography	spp.	species (plural)
HUD	Housing and Urban Development	STEL	short-term exposure limit
HxCDD	hexachlorodibenzo- <i>p</i> -dioxin	suppl.	supplement
IARC	International Agency for Research on Cancer	T	thymine
IDLH	immediately dangerous to life and health	TCBQ	tetrachlorobenzoquinone
IgG	immunoglobulin G	TCDD	tetrachlorodibenzo- <i>p</i> -dioxin
IL-3	interleukin-3	TCHQ	tetrachlorohydroquinone
		TCLP	toxicity characteristic leaching procedure
		TLV	threshold-limit value

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TNT	trinitrotoluene
TPQ	threshold planning quantity
TRI	Toxics Release Inventory
TSCA	Toxic Substances Control Act
TSNA	tobacco-specific nitrosamine(s)
TWA	time-weighted average
USDA	United States Department of Agriculture
UV	ultraviolet
UVR	ultraviolet radiation
VOC	volatile organic chemical
vol.	volume
v/v	volume-volume ratio
WC	tungsten carbide
WHO	World Health Organization
wt.	weight
yr	year